

## REMARKS

Claims 1-3 and 7 are now in this application. Claims 1- 3 and 7 are rejected and objected to. Claims 2, 3 and 7 are canceled Claims 8 – 13 are added. Claim 1 is amended herein to clarify the subject matter of the invention.

### Claim Objections

Claim 3 is objected to in view of informalities in the claim as set forth in the Office Action. Claim 3 is now cancelled.

### Specification

I submit herewith a substitute specification. Also accompanying this amendment is a reproduction of the original specification and abstract with markings indicating the amendments effected in the substitute specification. The substitute specification does not contain new matter. Entry of the substitute specification and abstract is respectfully requested.

The disclosure is objected to in view of informalities. The disclosure is collected in consideration of the Examiner's comments.

### Claim Rejections-35 U.S.C. 112

Claims 3 and 7 are rejected under 35 U.S.C. 112, second paragraph, indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 3 and 7 are cancelled. In view of the foregoing, it is respectfully submitted that the Examiner's rejection of claims 3 and 7 under 35 U.S.C. 112, second paragraph, has been overcome and should be removed.

Claim Rejections-35 U.S.C. 103(a)

Claims 1 - 3 are rejected as obvious over the Hujar et al. reference in view of Benedict (US5956759) under 35 U.S.C. 103(a). I herein respectfully traverse the rejections. For a rejection under 35 U.S.C. 103(a) to be sustained, the differences between the features of the combined references and the present invention must be obvious to one skilled in the art.

Claims 2 and 3 are now cancelled.

Claim 1 recites:

“a cloth cap body;

a sunshade cover removably and rotatably connected to the cap body by means for connecting, characterized in that the sunshade cover has a cooling material, and the cooling materials is a water-absorbing material as a fiber obtained by processing a polymer that contains the sodium salt of polyacrylic acid as a major component;

wherein, in the stored position, the sunshade cover provides shading to at least the top of the person's head and in the extended position, the sunshade cover provides shading to at least the back of the person's head;

the connecting means having a projection received in a recess, arrangement of the

projection in the recess allowing for rotation of the sunshade cover between the extended position and the stored position; and

a fixing means for detachably fixing the sunshade cover in either the extended position or the stored position”

The Examiner cites the Hujar reference for teaching the connecting means and Benedict reference for teaching the cooling material. However, both references are not disclosed the combination of the sunshade cover with cooling material, connecting means and fixing means. Thus, it is impossible to rotate the sunshade cover with cooling material and to fix detachably the sunshade cover in either the extended position or the stored position and to cool down the back part of the head when the sunshade cover is stored into the cap body. Therefore, the combination cited by the Examiner cannot render obvious the subject matter of claim 1 because it fails to teach or suggest all the claimed features providing the solution to the problem of showing the information.

Claims 8 – 13 are added newly. Dependent claims 8 – 13 are patentable based on the subject matter cited therein in addition to the subject matter of claim 1.

Thus, it is respectfully submitted that the rejected claims are not obvious in view of the cited references for the reason stated above. Reconsideration of the rejections of claim 1 and added claims 8 – 13 and their allowance are respectfully requested.

Claim 7 is rejected as obvious over the Hujar reference in view of Benedict and further in view of Koritan under 35 U.S.C. 103(a). Now claim 7 is cancelled. In view of

the foregoing, it is respectfully submitted that the Examiner's rejection of claim 7 under 35 U.S.C. 103(a), has been overcome and should be removed.

Response to Arguments

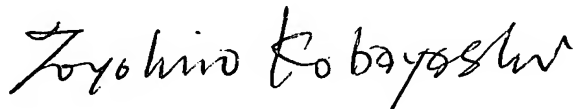
The examiner suggests that claim 3 would recite novel patentable subject matter if claim 3 were amended to include the combination of the stopper pin/axle and the hook and loop positioned on the cap and on the sunshade cover.

Claim 3 is reconstructed to claims 1.

Reconsideration of claim 1 and 8 – 13 and their allowance are respectfully requested

In light of the foregoing, the application is now believed to be in proper form for allowance of all claims and notice to that effect is earnestly solicited.

Respectfully submitted,

A handwritten signature in black ink, reading "Toyohiro Kobayashi". The signature is written in a cursive, flowing style.

Toyohiro Kobayashi

Enc: Substitute Specification; and Marked reproduction of original specification.

## CAP

### BACKGROUND OF THE INVENTION

This invention relates to a cap, including a hat, hood and the like, with a sunshade cover.

5        When people are [out in the fields] outdoors under strong sunlight for a long time, they not only wear a cap on the head [but also] may put a wet towel between the head and the cap in order to avoid having [the midsummer] sunstroke [and] and/or [having bad] being badly [sunburn] sunburnt on the back of the neck. However the wet towel [gets dry] dries quickly under the strong sunlight and also may be displaced when a strong wind blows. [Then,] Japanese Utility  
10    Model Application No. 61-156545 discloses a “Head Cooling Cap”[. This cap] in which is [equipped with] installed a rosin material that absorbs water very well therein and cools the head of the cap wearer by absorbing the heat [of a] in the space surrounding the cap. This cap, however, cannot cool [the back of the head and neck] and protect from strong sunlight the back of the head and neck. Since it also has to be entirely dipped into water before it is worn [and the  
15    additional water touches the sensitive forehead and upper portion of the face], such a cap is uncomfortable.

### SUMMARY OF THE INVENTION

Accordingly, it is an object of the invention to provide a cap with a shading cover which  
20    can protect the back part of the head and nape of a person under a scorching sun from the direct rays and the heat of the sun and having a cold insulator incorporated therein to keep cool the head and nape of the wearer for a long time.

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### BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a [vertical] cross section side view of a cap with a sunshade cover [when in use that the sunshade cover is hanging down from a cap body] in an extended position showing a first embodiment of the present invention;

5        Fig. 2 is a cross sectional view [showing the way in which the sunshade cover is stored within the cap body] of the cup of Fig. 1 with the sunshade cover in a stored position;

Fig. 3 illustrates how to use the cap of the present invention;

Fig. 4 is a cross sectional view of a [cup] cap formed in the shape of a hat with a sunshade cover showing [another feature of the first] an alternative embodiment of the present invention;

10        Fig. 5 is an explanation view of a connector [3] that connects removably and rotatably the sunshade cover to the cap body;

Fig. 6 is [an explanation] a cross-sectional side view of a hood with a sunshade cover showing a second embodiment of the present invention;

15        Fig. 7 [illustrates the back] is a rear view [of the head of a wearer] of [the hood showing the second embodiment of the present invention] Fig. 8; and

Fig. 8 is [an explanation] a cross-sectional side view [showing the way in which] of the hood [with the sunshade cover is] worn over [the] a cap.

### DETAILED DESCRIPTION OF THE INVENTION

20        Referring now to the drawings[.], Figs. 1 and 2 are [vertical cross sections] cross-sectional views of a cap according to [the invention] a preferred embodiment. The cap comprises a cap body 2 and a sunshade cover 1. The cap body 2 has a visor 8. As shown in Fig. 1, the sunshade cover 1 is hanging down from the cap body 2. In contrast, the cover 1 is kept inside the cap body 2 in Fig. 2.

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As may be better seen from Fig. 3(a), the cap body 2 is provided with two opposed burred sides 5 and 5' of a [hook and loop as] both-sided adhesive at the inside of its circumferential edge. Similarly, the sunshade cover 1 is provided with two opposed looped sides 4 and 7 of a [hook and loop as a] both-sided adhesive at its outside. As shown in Fig. 3(a), the looped side 4 of the  
5 both-sided adhesive of the sunshade cover 1 can be joined with the burred side 5 of the both-sided adhesive of the cap body 2, and the looped side 7 of the both-sided adhesive of the cover 1 can be joined with the burred side 5' of the both-sided adhesive of the cap body 2. The two opposed sides of the sunshade cover 1 can be thus fastened to the cap body 2. In addition, as shown in Figs. 1, 2 and 3(a) to 3(c), the sunshade cover 1 can be also connected to the inside of  
10 the cap body 2 by means of a middle connector 3 at its middle portion. This middle connector 3 is passing through openings (not shown) made in the cover 1 and the cap body 2 (Fig. 5).

The sunshade cover 1 has an inner space that contains a relatively small bag of fabric, or cooling member 6 (Figs. 1 and 2), containing a material that absorbs water very well and stitched into the inner space in such a manner that the small bag is accommodated flat in the inner space.  
15 And, as such a water-absorbing material to be put into the small bag, one can effectively use, for example, fibers obtained by processing a polymer that contains the sodium salt of polyacrylic acid as a major component.

This cap of the preferred embodiment of the invention can be very effectively used to avoid sunstroke when one is exposed to direct or strong sunlight for a long time. In use, one first  
20 dips the sunshade cover 1, and only the sunshade cover 1, into water, so that the cooling member 6 thus absorbs the water very well. Then, he or she puts the cap on his or her head with its sunshade cover 1 hanging down from the cap body 2 as shown in Figs. 1 and 3(a). The wearer of the cap is now ready to carry out some activity or sit or stand still for a long time under strong sunlight, because the cooling member 6 absorbs the heat of the space surrounding this member 6

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as the water absorbed by the above-mentioned water-absorbing material evaporates under strong sunlight. The sunshade cover 1 thus cools the head of the cap wearer under strong sunlight. To be exact, the sunshade cover 1 cools both the lower part of the back of the head and the back of the neck when that cover 1 is hung down from the cap body 2.

5           In addition, one can also wear this cap of the preferred embodiment of the invention in order to cool the top of his head under strong sunlight, because the sunshade cover 1 can be shifted from [the hanging] an extended position of Figs. [3] 1 and 3(a) to [an inner] a stored position of Figs. 2 and 3(c) in the cap body 2. To shift the cover 1 to this [inner] stored position, one first pulls apart the looped fastener element 4 and the burred fastener element 5 and also  
10       pulls apart the looped fastener element 7 and the burred fastener element 5'. Then, one turns the sunshade cover 1 in either one of two opposite directions, as shown in Fig. 3(b). In Fig. 3(b), the cover 1 is being turned in a counterclockwise direction 9 when viewed from under the cap. And this turning is done for an angle of 180 degrees, and then this time the looped fastener element 7 is joined with the burred fastener element 5 and the looped fastener element 4 is joined with the  
15       burred fastener element 5', as illustrated in Fig. 3(c). The sunshade cover 1 thus can be shifted to the [inner] stored position in the cap body 2. In this position the sunshade cover 1 can cool both the upper part of the back of the head and the top of the head, as can be seen from Fig. 2.

          The reason why the cover 1 can be turned in such a manner is because of the construction of the middle connector 3 with a stopper pin 3a. Detailed construction of this connector 3 is  
20       shown in Fig. 5.

          As illustrated in Fig. 5, this connector 3 comprises a male piece 31 passing through the thickness of the sunshade cover 1 and a female piece 32 passing through the thickness of the cap body 2. The male piece 31 has a projecting portion 31A in the shape of an inverted trapezoid, and the female piece 32 has a complementary recess 32A into which the projecting portion 31A



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is rotatably fit. Thus the male piece 31 and female piece 32 [is] are mated with each other such that the male piece 31 can be rotated. Thus the sunshade cover 1 can be turned or shifted to the [inner] stored position of Fig. 2 by rotating the male piece 31.

In addition, the male piece 31 can be separated from the female piece 32 to detach the  
5 sunshade cover 1 from the cap body 2. If it is detached from the cap body 2, one can wear this cap as a usual cap.

It will be appreciated that this cap of the preferred embodiment of the invention is very suitable for, for example, a spectator at a baseball or soccer game played under a burning sun in the height of summer. The wearer of this cap can feel pleasantly cool at the head under such a  
10 condition. If a design or pattern is printed on the sunshade cover 1, it is usually printed on the outside of the cover 1. This cover 1 contacts the head of the cap wearer at its inside either when the cap is worn with the cover 1 in the [hanging] extended position of Fig. 1 or when it is worn with the cover 1 in the [inner] stored position of Fig. 2. Therefore, the outside of the cover 1, or the printed side thereof, is not polluted by the cap wearer's hair.

15 [The cap of figs. 1 to 3(a) is one aspect of a first embodiment of the invention. Fig. 4 depicts another aspect of the first embodiment of the invention. That is,] Fig. 4 depicts a hat with a sunshade cover 1. In Fig. 4 the same reference numerals as those of the cap are used to designate parts similar to those of the cap. As with the cap, the sunshade cover 1 of the hat of Fig. 4 contains an inner cooling member 6. The sunshade cover 1 is removably connected to a cap  
20 body 2 in a similar manner to the sunshade cover 1 of the cap.

Figs. 6, 7 and 8 illustrate a second embodiment of the invention. That is, these Figures show a hood with a sunshade cover. Reference numerals 61 and 64 designate the front and back, respectively, of a headband part of elastic material. The front 61 of the headband part is secured to a sunshade cover 63 at 62, as by stitching. A cooling member 65 is provided in the back 64 of

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the headband part, and is in such a position as to cool the back of the head 67 of a hood wearer. Also, another cooling member 66 is provided in the sunshade cover 63, and is in such a position as to cool chiefly the back 68 of the neck. The same water-absorbing material as in the cap of Fig. 1 may be put into the cooling members 65 and 66. If desired, as shown in Fig. 8, one can wear  
5 the hood of Figs. 6 and 7 over a usual cap. If one wears the hood in such a manner, not only does the sunshade cover 63 cool the head and the back of the neck of the wearer, but the head serves to secure the cap to the head and hence prevents the cap from being blown off by a strong wind.

As set forth above, by wearing the cap of [this] the preferred embodiment of the invention, it prevents direct rays from the sun reaching the back of the head or a neck [from a direct rays]  
10 whilst the wearer is outdoors, for example when [a user is] playing in an amusement park [,] or when watching sport games in the soccer stadium and baseball field [under blazing heat]. In addition, If [only a] the shade cover [part] is soaked in water and worn, [since the cooking material will hold moisture so much, by] evaporation of the water results in cooling of the head and/or nape of the wearer. [heat's occurring with the heat of direct rays, and taking heat from the  
15 circumference, a wear part can be made into low temperature and can be made cool. Accordingly, It can be used for watching the sport games etc., blazing heat comfortably for a long time and so on.] Furthermore, [if the shade cover part is contained inside the main part of a hat, the cooling material is located in an upper head and an upper head can be cooled efficiently. Also] since [it] the shade cover can be [remove] removed, [the shade cover part] it can be  
20 [removed and can be] detached from the cup body and cleaned.

The hood structure [including] having a hair band as the headband part and a shading cover connected together and each [is] provided with a cold insulator for [doubly] cooling the head and nape of the wearer in not blown away [. In addition], [It can avoid blowing away,] even [if a] in strong [wind blows when carrying out sports, such as a triathlon under blazing heat, and

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fishing in the sea, since it is fixable to a head firmly by wearing a hair band over on a hat.] winds,  
since it is fixable to a head firmly by wearing the hair band over hat. By cooling the back of the  
head and theneck, sunstroke can be prevented easily.

ABSTRACT OF THE DISCLOSURE

A cap has [a cap body; a sunshade cover connected to the cap body by connecting means, characterized in that the sunshade cover has a cooling material that is a water-absorbing material as a fiber; and the connecting means has a male piece and a female piece respectively on the cap body and the sunshade cover, wherein the male piece has a projection portion rotatably and removably attached to a recess of the female portion such that when the shading cover is rotated in the stored position inside the cap body, one of a front and rear surface of the cover is flush with the head, and when the cover is rotated out of the cap body, the back part of the wearer's head and nape is cooled.] a cap body; a sunshade cover removably and rotatably connected to the cap body by means for connecting, having a cooling material, wherein, in the stored position, the sunshade cover provides shading to at least the top of the person's head and in the extended position, the sunshade cover provides shading to at least the back of the person's head; the connecting means having a projection received in a recess, arrangement of the projection in the recess allowing for rotation of the sunshade cover between the extended position and the stored position; and a fixing means for detachably fixing the sunshade cover in either the extended position or the stored position so that it can protect the back part of the head and nape of a person under a scorching sun from the direct rays and the heat of the sun and having a cold insulator incorporated therein to keep cool the head and nape of the wearer for a long time.